

ABSTRACT OF THE DISCLOSURE

A novel human sodium phosphate cotransporter expressed on the apical surface of intestinal epithelial cells (huNpt2B) and polypeptides related thereto, as well as nucleic acid compositions 5 encoding the same, are provided. The subject polypeptides and nucleic acid compositions find use in a variety of applications, including research, diagnostic, and therapeutic agent screening applications. Also provided are methods of inhibiting Npt2B activity in a host and methods of treating disease conditions associated with Npt2B activity.